Rec'd PCT/PTO 15 OCT 2006

10/553320

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY				пт		•	976
То:				'PCT	Salasion		
				·		RITTEN OPINION OF IONAL SEARCHING	
						(PCT Rule 43bis.1)	
					Date of mailing (day/month/year)		·
Applica	nt's or as	gent's file referenc	e		FOR FURTHER ACTION		
096		-				See paragraph 2 below	
Internati	onal app	olication No.		International filing date	e (day/month/year) Priority date (day/month/year)		
PCT	JP2	2004/0054	156	16.04.2004		18.04.2003	
Applica	International Patent Classification (IPC) or both national classification and IPC Applicant						
SEN	JU I	PHARMACEU	JTICAL	CO. LTD.			
1.	This o	pinion contains in	dications rela	ting to the following item	s:		
	\boxtimes	Box No. I	Basis of the			•	
		Box No. II	Priority				
	\boxtimes	Box No. III	Non-establi	shment of opinion with re	gard to novelty, invent	ive step and industrial app	olicability
		Box No. IV		ty of invention			
Box No. V Reasoned statement under Rule 43b. applicability; citations and explanati			atement under Rule 43bis y; citations and explanation	ois.1(a)(i) with regard to novelty, inventive step or industrial ions supporting such statement			
		Box No. VI	Certain doc	uments cited			
		Box No. VII	Certain defe	ects in the international ap	plication		,
	\boxtimes	Box No. VIII	Certain obs	ervations on the internation	onal application		
2.	FURT	THER ACTION					
	If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
	For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.							
Name	nd mail	ing address of the	ISA/IP		Authorized officer		
INALIEC 2	au uidli	ing address of the					
Faccimile No			Telephone No.				

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 09635	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2004/005456	International filing date (day/month/year) 16 April 2004 (16.04.2004)	Priority date (day/month/year) 18 April 2003 (18.04.2003)	
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant SENJU PHARMACEUTICAL CO. LTD.			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).			
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	3. This report contains indications relating to the following items:			
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opin applicability	nion with regard to novelty, inventive step and industrial	
	Box No. IV	Lack of unity of invention	1	
	Box No. V	Reasoned statement under applicability; citations and	r Article 35(2) with regard to novelty, inventive step or industrial d explanations supporting such statement	
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the inter	rnational application	
	Box No. VIII	Certain observations on the	ne international application	
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).			
			Date of issuance of this report 02 March 2006 (02.03.2006)	
	The International Bure		Authorized officer	
	34, chemin des Cole 1211 Geneva 20, Sw		Masashi Honda	

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International application No.
PCT/JP2004/005456

Вох	x No. I	Basis of this opinion	
1.	With filed	n regard to the language, this opinion, unless otherwise indicated under thi	n has been established on the basis of the international application in the language in which it was is item.
		This opinion has been established o	on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).	•
2.	With	n regard to any nucleotide and/or ntion, this opinion has been establish	amino acid sequence disclosed in the international application and necessary to the claimed led on the basis of:
	a.	type of material	
		a sequence listing	
		table(s) related to the sequence	ce listing
	b.	format of material	
		in written format	
		in computer readable form	
	c.	time of filing/furnishing	
		contained in the international	application as filed.
		filed together with the interna	ational application in computer readable form.
		furnished subsequently to this	s Authority for the purposes of search.
3.		furnished, the required statements	than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or that the information in the subsequent or additional copies is identical to that in the application as olication as filed, as appropriate, were furnished.
4.	Add	litional comments:	
		•	
		•	
		•	

International application No.
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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement			
	Novelty (N)	Claims	1-12	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
			1-12	NO
	Industrial applicability (IA)	Claims	1-12	YES
		Claims		NO

Citations and explanations:

Claims 1-12

Document 1: M. NEGISHI et al., Seikagaku, 2002; 74 (5), 395-8, [Japanese]

Document 2: M. NIKOLIC, Int. J. Biochem Cell Biol, 2002, 34(7): 731-45

Document 3: M. LEHMANN et al., J. Neurosci., 1999, 19(17), 7537-47

Document 4: P. DERGHAM et al., J Neurosci, 2002, 22(15), 6570-7

Document 5: US 2002/0119140 A1

Document 6: WO 02/083175 A1 & EP 1378247 A1

Document 7: WO 01/068607 A1 & EP 1270570 A1

Document 8: JP 2003-073357 A

As described in documents 1-8, the fact that the formation and expansion of neurite outgrowth is facilitated by inhibition of Rho is confirmed in a plural type of neurons. As a result, studying the effect for corneal nerves using a Rho inhibitor can be easily carried out by a person skilled in the art based on the knowledge obtained from these documents. Making use of the effect that the corneal nerves have on a variety of different diseases could easily be foreseen by a person skilled in the art.

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Box No. II	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:			
	the entire international application		
\boxtimes	claims Nos. 13-16		
becaus	c:		
\boxtimes	the said international application, or the said claims Nos. 13-16 relate to the following subject matter which does not require an international preliminary examination (specify):		
	The subject matter of claims 13-16 relates to a method for treatment of the human body by therapy.		
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):		
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.		
	no international search report has been established for said claims Nos. 13-16		
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:		
	the written form has not been furnished		
	does not comply with the standard		
	the computer readable form has not been furnished does not comply with the standard		
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.		
	See Supplemental Box for further details.		

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Box No. VIII

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The subject matter of claims 1-12 relates to an agent for promoting corneal neural outgrowth formation, an agent for promoting extension of corneal neural axons, an agent for repairing corneal perception and a dry eye therapeutic agent whose active ingredient is a compound defined by the desired characteristics as a "Rho protein inhibitor." The subject matter of claims 1-12 encompasses all compounds which have these properties. However, what is disclosed in the sense of PCT Article 5 is merely an extremely small part of the compound claimed and is not fully supported by the disclosure of the specification in the sense of PCT Article 6.

Furthermore, even after taking into consideration the common general technical knowledge at the time of filing, the "Rho protein inhibitor" cannot specify the scope of the compounds which have these properties; therefore, claims 1-12 lack the requisite clarity of PCT Article 6.